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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,513		01/03/2001	Jun-Ho Sung	P56268	9980
8439	7590	06/25/2004	•	EXAMINER	
ROBERT I		NELL	YUSSUF, SAJID		
1522 K STREET NW SUITE 300				ART UNIT	PAPER NUMBER
WASHING	WASHINGTON, DC 20005-1202			2141	4
				DATE MAILED: 06/25/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	Jan
	09/752,513	SUNG ET AL.	
Office Action Summary	Examiner	Art Unit	
The MAN INO DATE of the	Sajid A Yussuf	2141	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addi	9SS
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period was a Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	mely filed /s will be considered timely. the mailing date of this com ED (35 U.S.C. § 133).	munication.
Status			
1)☐ Responsive to communication(s) filed on <u>03 Ja</u> 2a)☐ This action is FINAL . 2b)☒ This 3)☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	osecution as to the r	nerits is
Disposition of Claims			
4) Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.		
Application Papers			
9) The specification is objected to by the Examine 10) The drawing(s) filed on 03 January 2001 is/are: Applicant may not request that any objection to the ore Replacement drawing sheet(s) including the correction of the ore control of the o	a) \square accepted or b) \square objected drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR	R 1.121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicat ity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National S	tage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/1-3-01.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	152)

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DETAILED ACTION

Specification

The title of the invention is not descriptive. A new title is required that is clearly indicative

of the invention to which the claims are directed.

Drawing Objections

1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they

include the following reference sign(s) not mentioned in the description: Figure 4, item 5402. A

proposed drawing correction, corrected drawings, or amendment to the specification to add the

reference sign(s) in the description, are required in reply to the Office action to avoid abandonment

of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 U.S. C. § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness

rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter cought to be patented and the prior art are such that the subject matter as a whole

matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by

the manner in which the invention was made.

Claims 1-9, and 11-24 are rejected under 3 5 U. S. C. 103 (a) as being unpatentable

over Jansen et al. (US 6,243,450), further in view of Gupta et al. (US 6,487,538), and further

in view of Massarani (US 6,393,484).

4. As per claim 1, Jansen teaches an internet interface server system (Col. 4, lines 29-36),

comprising an internet network for providing high-speed connection services (Col. 4, lines 29-36: T1

connections is high-speed service), plural interface units (Figure 2, item 38: A plurality of terminals

are connected to the Central server, through the intranet, through their Ethernet interfaces) for

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connecting mobile terminals of users (Col. 3, lines 31-37; Col. 1, line 54: Terminals can be wirelessly located anywhere and therefore are considered mobile, and various services can be provided to terminal users) to the internet network (Figure 2, item 40) so as to provide the users with internet services (Col. 1, lines 60-63; Col. 4, lines 29-36), a central management server connected to the internet network (Figure 2: "Central Server") and responsive to the input into the interface units of settlement information (Col. 2, lines 21-23: A payment receiver such as a card reader), relating to the mobile terminals for carrying out usage authentications of the mobile terminals by performing data communications with an external settlement server which carries out settlements upon reception of the settlement information from the interface units (Figure 2; Col. 4, lines 10-14: Vendor servers include payment authorization servers), and for transmitting charge information with respect to the internet connection services of the mobile terminals (Col. 5, lines 4-11).

However, Jansen does not explicitly teach a central management server allocating dynamic IP addresses and enabling the mobile terminals to carry out internet searches and the central management server being responsive to the mobile terminals receiving from the interface units a signal terminating the internet connections for releasing the dynamic IP addresses allocated to the mobile terminals.

Gupta discloses local advertising on the Internet where the advertising scheme is based on input from the user such as searches made on a search engine. The ISP would display advertisements relating to the search made by the user (Col. 4, liens 61-65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Gupta in the system of Jansen, because by implementing the specification as described above, the system would display targeted advertisements on the terminal because it would be a revenue source and for owners of web sites (Col. 5, lines 66-67; Col. 6, lines 1-10).

Massarani teaches mobile and dynamic end user devices connected to a shared-medium network through an access port, connected to a router/switch. The router/switch is connected to a Dynamic Host Control Protocol (DHCP) server that assigns TCP/IP configuration information such as IP address, to the end user device (Col. 4, lines 32-67). Massarani further teaches releasing the

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dynamic IP address allocated to the mobile terminal once a lease is expired or the terminal is

disconnected from the access port (Col. 6, lines 66-67; Col. 7, lines 1-33).

By allowing the system of Jansen-Gupta to dynamically allocate IP addresses for the mobile

terminals, such as the system of Massarani, the system of Jansen-Gupta would be able to release

resources that the terminals aren't using so free them up.

It would have been obvious to one of ordinary skill in the art at the time the invention was

made to combine the teachings of Massarani in the system of Jansen-Gupta, because by

implementing the specification as described above, the system would prevent unauthorized persons

from taking advantage of the exposed network access ports to gain IP connectivity to the network

(Massarani: Col. 1, lines 27-30).

5. As per claim 2, Jansen-Gupta-Massarani teaches the claimed invention as described above

and further teaches wherein the mobile terminals are at least one of notebook computers, palm top

computers, network computers and PDAs (Jansen: Col. 3, lines 31-35; Massarani: Col. 4, lines 31-

34).

6. As per claim 3, Jansen-Gupta-Massarani teaches the claimed invention as described above

and further teaches wherein each of the interface units comprise a first communication unit

connected to the mobile units (Jansen: Figure 4, Item 104: The Ethernet Interface connects to the

mobile units and to the Intranet).

a second communication unit connected to the internet network for performing

communications with the central management server (Jansen: Figure 3, items 46, 48, & 50: The

terminals are connected to the central server through the interface which connects them to the web

server, file server, and transaction server), via the internet network (Jansen: Figure 3, item 64), for

transmitting a mobile terminal-requested signal to the internet network (Jansen: Figure 3, item 68),

and for enabling each of the interface units to receive a signal comprising information searched in

the internet network (Gupta: Col. 4, lines 61-65),

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a storage unit for storing at least one of communication port activation data for the interface units (Jansen: Figure 4, item 212: "Configuration file"), settlement information (Jansen: Figure 4, item 116: "Card Data Buffer"), encryption data (Jansen: Figure 4, item 116; Col. 5, lines 1-11: "Card Data Buffer:" The card data would be encrypted inside the terminal to prevent unauthorized use), and deciphering data (Jansen: Figure 4, item 112, "Received Message Buffer" holds card data which can be decoded), and for storing operating programs for carrying out input and output (Jansen: Figure 4, item 168: "Web Browser Program" has input and output functionality), with respect to usage information of the mobile terminals (Jansen: Figure 4, item 160: "Billing Program"),

a settlement unit responsive (Jansen: Figure 3, item 70), to user input of settlement information into the mobile terminals in order to settle charges for the use of the interface units of the mobile terminals for reading (Jansen: Figure 4, item 30: "Card reader") and transmitting the settlement information from the mobile terminals of the user (Jansen: Figure 4, item 88),

an output unit responsive to connection of the mobile terminals to the interface units, input of the settlement information by the user (Jansen: Figure 4, item 30: "Card reader"), approval of the settlement information by the central management server (Jansen: Figure 3, item 70), conduct of work through the internet network and termination of the conducted work, for outputting a statement of usage charges with respect to the usage times of the mobile terminals (Jansen: Figure 6, item 260; Col. 10, lines 23-33),

a liquid crystal display (LCD) (Jansen: Figure 4, item 92) for displaying the statement outputted by the output unit for visual confirmation of the users, and for performing a function as a user interface for the users (Jansen: Figure 3, item 68: "Requests"),

a control unit responsive to connection of the mobile terminals to the first communication unit for activating communication channels for the mobile terminals (Jansen: Figure 4, item 82: "gyp"), for transmitting to the external settlement server the settlement information of the users (Jansen: Figure 3, items 50 and 70: "Transaction server"), and responsive to an approval signal for receiving the dynamic IP addresses from the central management server for allocation to the mobile terminals (Massarani: Figure 4, item 410 & 414: If a MAC address is registered, it is approved and an appropriate IP address is allocated), for storing in the storage unit charge information with

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respect to the connections of the mobile terminals (Jansen: Figure 3, item 62: Database keeps track

of the billing records and usage rates), for outputting the charge information from the storage unit

to the output unit and the liquid crystal display while (Jansen: Figure 6, item 260; Col. 10, lines 23-

33), at the same time, transmitting the charge information the central management server (Jansen:

Figure 3, item 70: "Billings"), and the settlement server through the second communication unit

when the connections of the mobile terminals and their internet interface units are terminated

(Figure 12, item 266 and 268: User quits service), and for transmitting to the central management

server a signal releasing the allocated dynamic IP addresses (Massarani: Col. 6, lines 66-67; Col. 7,

lines 1-33),

7. As per claim 4, Jansen-Massarani teaches the claimed invention as described above and

further teaches a local area network (LAN) cable for connection between the first communication

unit and the mobile terminals (Massarani: Col. 4, lines 36-43; Col. 5, lines 26-54).

8. As per claim 5, Jansen-Massarani teaches the claimed invention as described above and

further teaches wherein the LAN cable is connected to a LAN card mounted in the mobile terminals

(Massarani: Col. 4, lines 47-53).

9. As per claim 6, Jansen-Massarani teaches the claimed invention as described above and

further teaches wherein the storage unit stores driver information for LAN cards provided in the

interface unit (Jansen: Figure 5, item 162; Col. 7, 28-33).

10. As per claim 7, Jansen-Massarani teaches the claimed invention as described above and

further teaches wherein the storage unit stores programs for performing charge for the mobile

terminals (Jansen: Figure 9; Col. 9, lines 53-67).

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11. As per claim 8, Jansen-Massarani teaches the claimed invention as described above and

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further teaches wherein the settlement unit is a card reader for reading a credit card (Jansen:

Figure 4, item 30; Col. 4, lines 5-19).

12. As per claim 9, Jansen-Massarani teaches the claimed invention as described above and

further teaches wherein the second communication unit carries out wireless communication

(Jansen: Col. 3, lines 31-37).

13. As per claims 11-24, they recite the same claim limitations as in claims 1-9, and therefore

are rejected under the same rationale.

14. Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Jansen et al.

(US 6,243,450), further in view of Massarani (US 6,393,484).

15. As per claim 10, Jansen teaches an internet interface service method, where when a mobile

terminal of a user and an internet interface unit are connected by any of a local area network (LAN)

cable equipped in a first communication unit and a LAN cable equipped with a LAN card (Col. 1,

lines 31-37), establishing a communication channel with the mobile terminal by use of a control

unit as to activate the first communication unit (Col. 1, lines 31-37: A communication line is

dedicated specifically to the mobile terminal), the control unit being included in the internet

interface unit (Figure 4, item 104),

outputting from the control unit a message requesting user entry of settlement information

in order to settle charges for the use of the interface unit by the mobile terminal of the user after the

establishment of the communication channel (Figure 10; Col. 10, lines 1-3), and when the user

enters the settlement information, reading the settlement information, transmitting the settlement

information to a settlement server through a central management server, and receiving a settlement

approval from the settlement server (Figure 3, item 70: "Credit Card Services," "Validations &

Billings;" Col. 10, lines 60-67; Col. 11, lines 1-67; Col. 12, lines 1-29),

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when a predetermined connection termination signal is inputted to the interface unit by a connection termination menu provided on one of the mobile terminal and the interface unit (Figure 12, item 266: "User quits the service"), terminating the communication channel of the mobile terminal by means of the control unit, outputting charge information stored in the storage unit to an output unit (Jansen: Figure 6, item 260; Col. 10, lines 23-33) and a liquid crystal unit display (LCD) (Figure 4, item 92) while, at the same time, transmitting the charge information by means of the control unit to the central management server and the settlement server through a second communication unit, thereby performing a charging function (Jansen: Figure 3, items 50 and 70: "Transaction server").

However, Jansen does not explicitly teach receiving a dynamic IP address from the central management server, allocating the received IP address to the mobile terminal, and performing data communications by means of the data terminal according to predetermined work through the internet interface unit and an internet network connected to the internet interface unit

Massarani teaches mobile and dynamic end user devices connected to a shared-medium network, such as the Internet (Col. 1, lines 31-32: Internet Service Providers provide access to the internet), through an access port, connected to a router/switch. The router/switch is connected to a Dynamic Host Control Protocol (DHCP) server that assigns TCP/IP configuration information such as IP address, to the end user device (Col. 4, lines 32-67). Massarani further teaches releasing the dynamic IP address allocated to the mobile terminal once a lease is expired or the terminal is disconnected from the access port (Col. 6, lines 66-67; Col. 7, lines I -33).

By allowing the system of Jansen to dynamically allocate IP addresses for the mobile terminals, such as the system of Massarani, the system of Jansen would be able to release resources that the terminals aren't using so free them up.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Massarani in the system of Jansen, because by implementing the specification as described above, the system would prevent unauthorized persons from taking advantage of the exposed network access ports to gain IP connectivity to the network (Massarani: Col. 1, lines 27-30).

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16. As per claim(s) 11-24, they recite the same limitations as in claims 1-9, and therefore are

rejected under the same rationale.

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Sajid A Yussuf whose telephone number is (703) 305-8752. The examiner can

normally be reached on Monday-Thursday 7:30-5:00 PM and Alternate Fridays.

18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Rupal Dharia can be reached on (703) 305-4003. The fax phone number for the organization where

this application or proceeding is assigned is 703-872-9306.

19. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications may

be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR system,

see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system,

contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sajid Yussuf

Patent Examiner

Technology center 2100

16 June 2004

SUPERVISORY PATENT EXAMINER